

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061549.D
 Acq On : 7 Feb 2019 17:13
 Operator : VA/AP
 Sample : K1401-07
 Misc : 4.45g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:35:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	170916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	293751	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	254672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	95429	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	122802	58.20	ug/l	0.00
Spiked Amount			Recovery	=	116.40%	
35) Dibromofluoromethane	4.11	113	133360	57.53	ug/l	0.00
Spiked Amount			Recovery	=	115.06%	
50) Toluene-d8	7.55	98	303854	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
62) 4-Bromofluorobenzene	11.41	95	122340	41.23	ug/l	0.00
Spiked Amount			Recovery	=	82.46%	

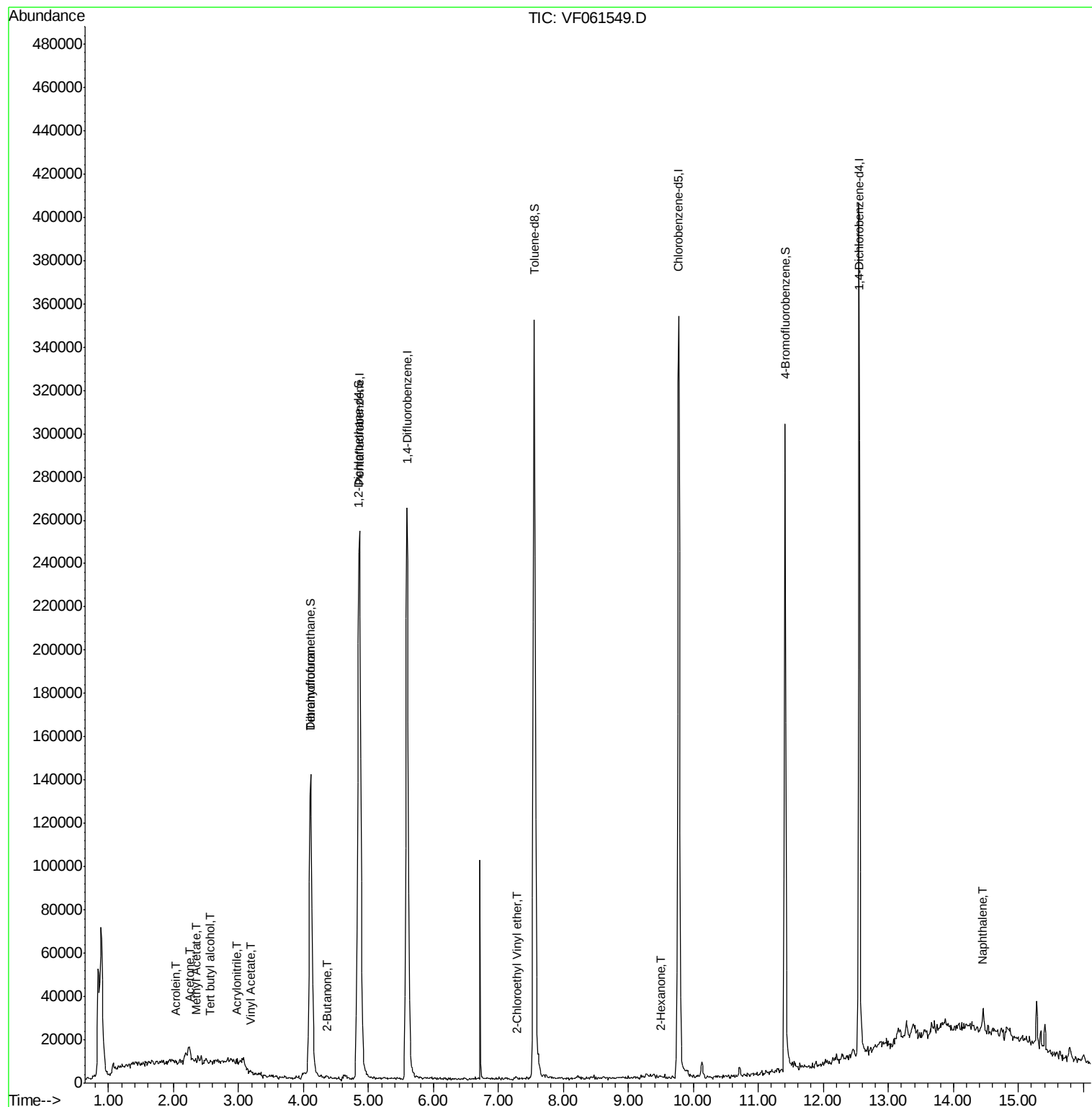
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	151	1.691	ug/l #	1
13) Acrolein	2.04	56	566	17.390	ug/l	96
14) Allyl chloride	2.10	41	511	Below Cal	#	53
15) Acrylonitrile	2.97	53	868	3.794	ug/l #	55
16) Acetone	2.24	43	6152	14.533	ug/l	96
18) Methyl Acetate	2.36	43	1279	1.523	ug/l #	61
20) Methylene Chloride	2.19	84	1974	Below Cal	#	59
23) Vinyl Acetate	3.18	43	567	3.429	ug/l #	78
25) 2-Butanone	4.35	43	1017	1.445	ug/l #	57
29) Tetrahydrofuran	4.10	42	477	1.574	ug/l #	38
49) 1,4-Dioxane	6.94	88	65	Below Cal	#	13
58) 2-Chloroethyl Vinyl ether	7.29	63	65	27.852	ug/l #	47
59) 2-Hexanone	9.50	43	1071	1.223	ug/l #	59
95) Naphthalene	14.45	128	7765	1.903	ug/l #	91

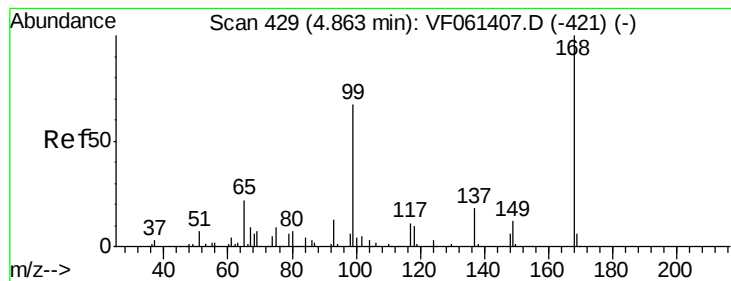
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

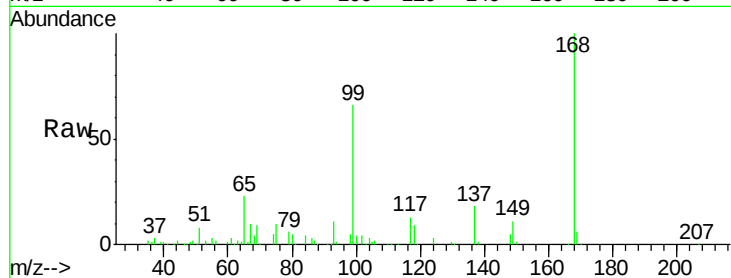
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 170916

Ion Ratio Lower Upper

168 100

99 65.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

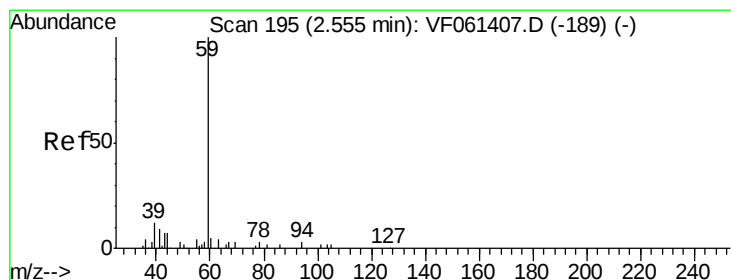
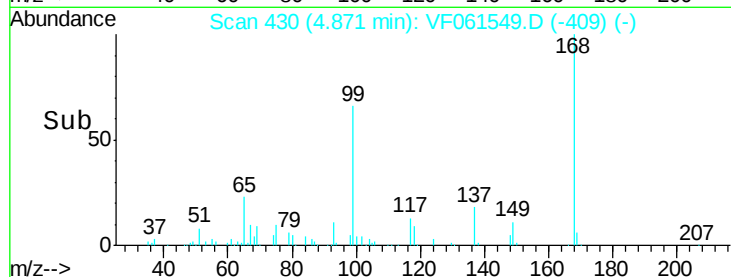
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.691 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061549.D

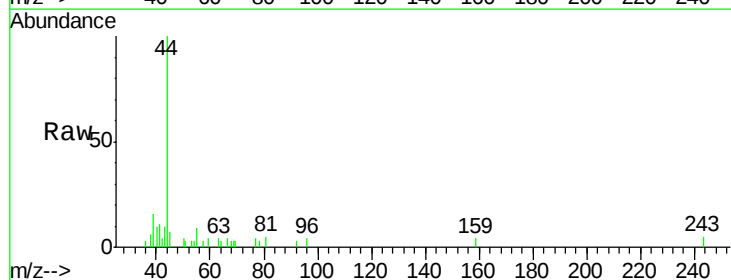
Acq: 7 Feb 2019 17:13

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

59 100

57 74.1 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

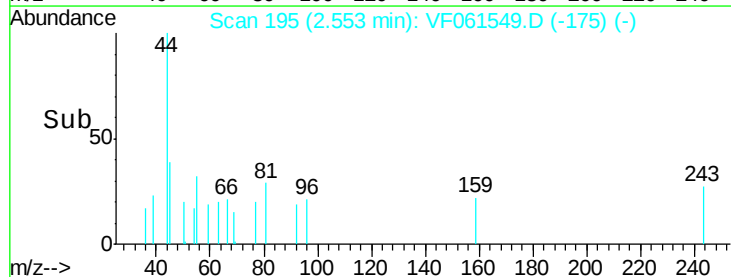
150

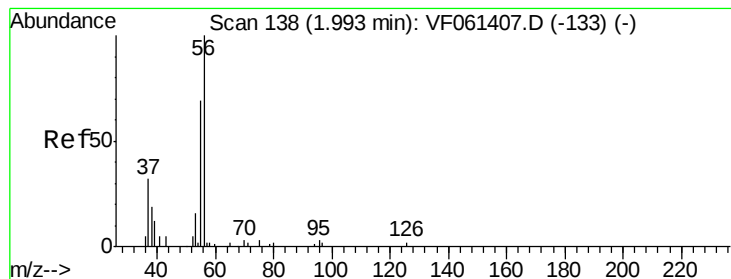
100

50

0

Time--> 2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 17.390 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.05 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

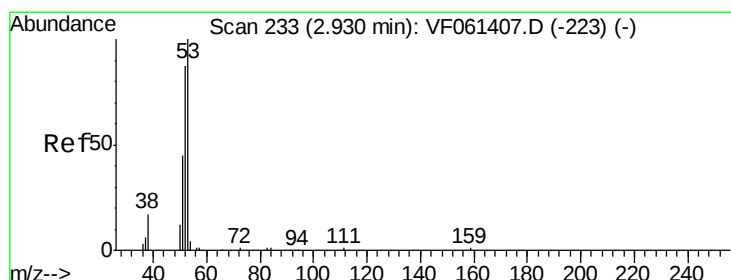
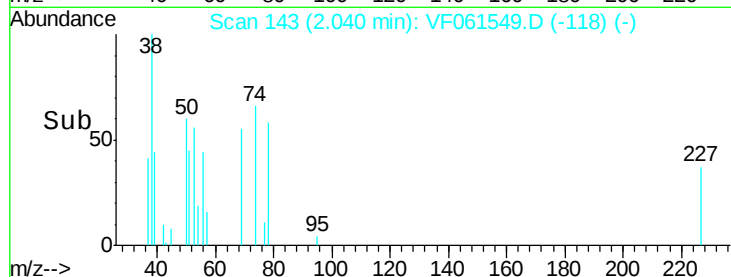
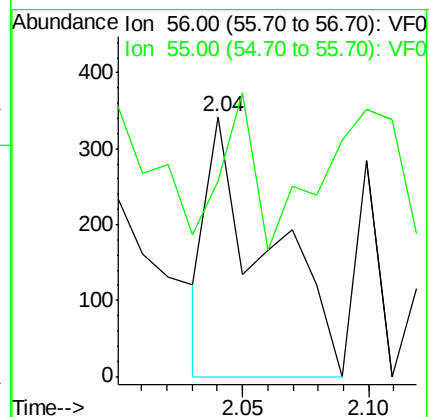
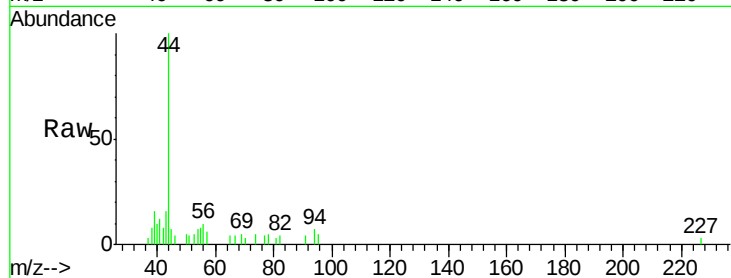
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 566

Ion Ratio Lower Upper

56 100

55 75.1 57.5 86.3



#15

Acrylonitrile

Concen: 3.794 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.04 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

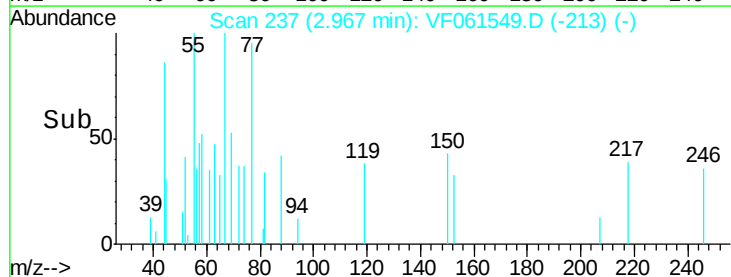
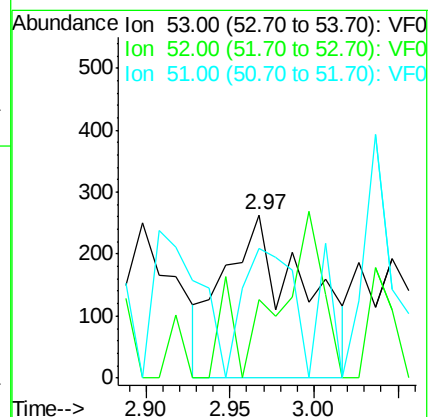
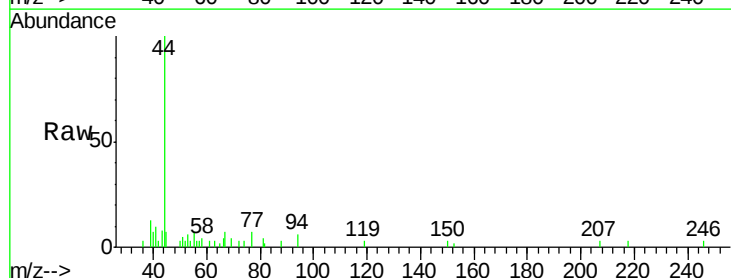
Tgt Ion: 53 Resp: 868

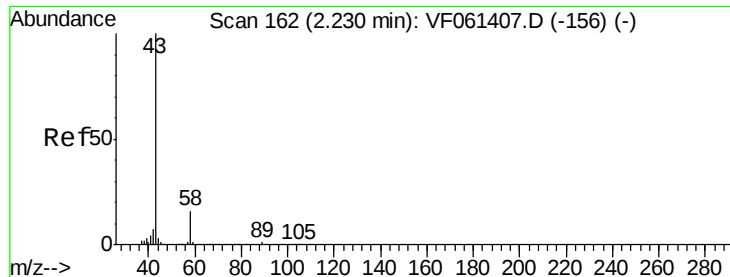
Ion Ratio Lower Upper

53 100

52 48.3 69.6 104.4#

51 79.5 36.8 55.2#

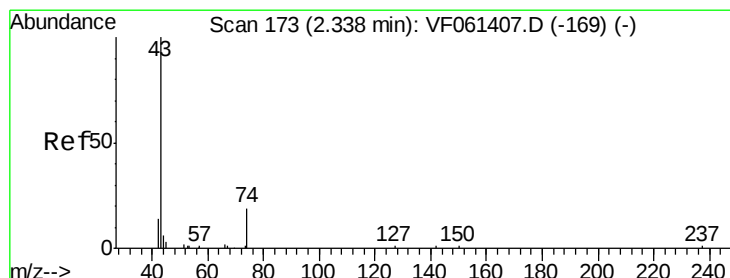
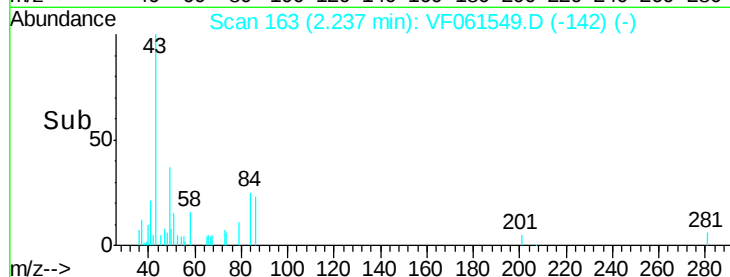
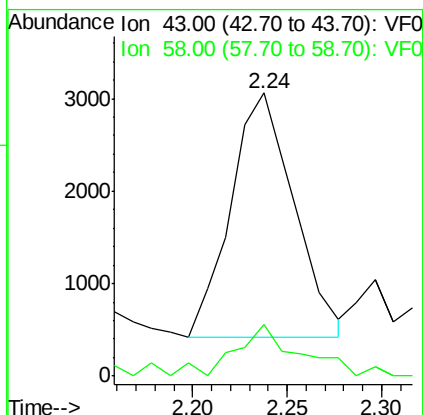
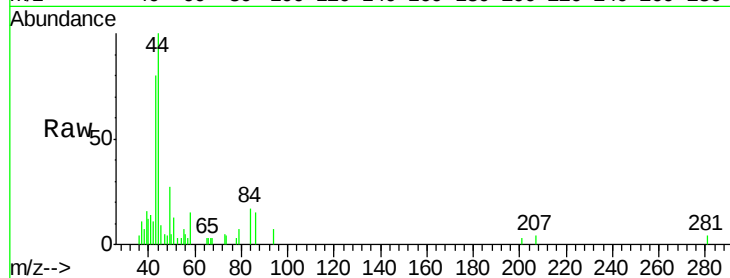




#16
Acetone
Concen: 14.533 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.01 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

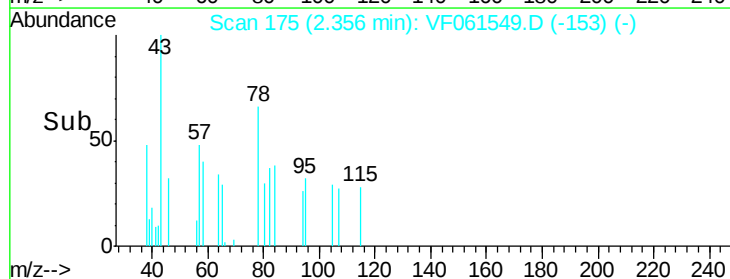
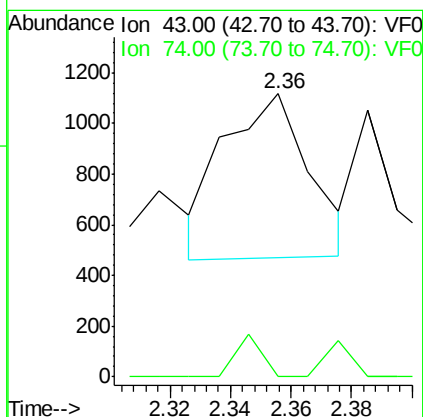
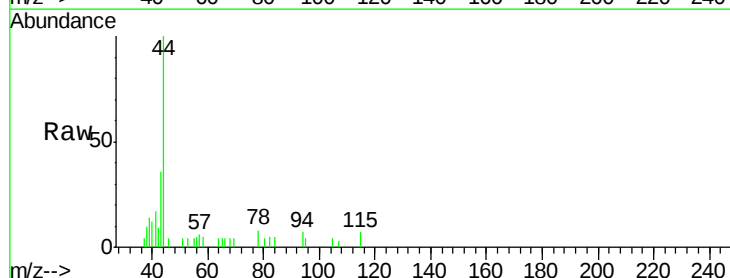
Instrument :
MSVOA_F
ClientSampleId :

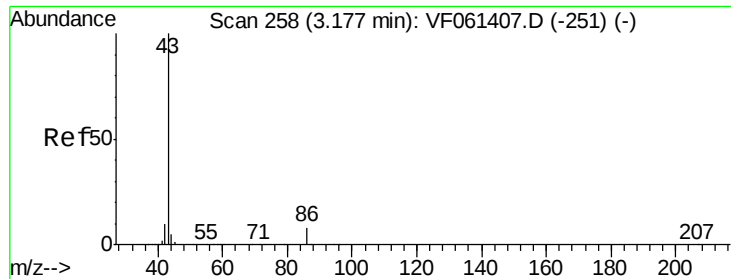
Tot Ion: 43 Resp: 6152
Ion Ratio Lower Upper
43 100
58 18.2 13.3 19.9



#18
Methyl Acetate
Concen: 1.523 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 1279
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.429 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

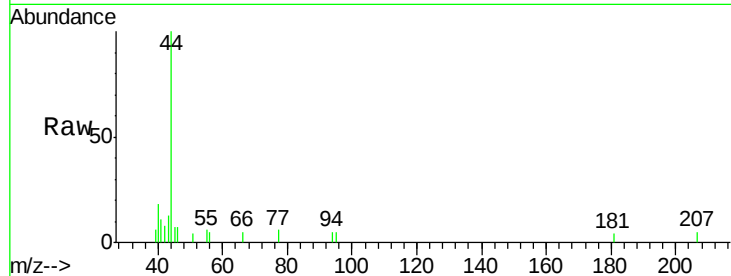
ClientSampled :

Tot Ion: 43 Resp: 567

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



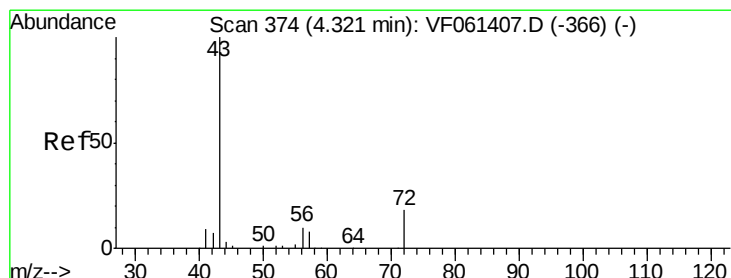
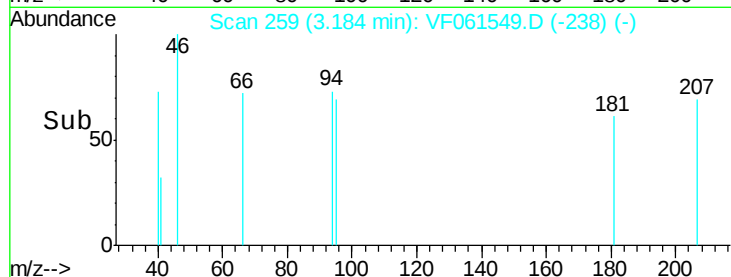
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

3.20

Time-->



#25

2-Butanone

Concen: 1.445 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.03 min

Lab File: VF061549.D

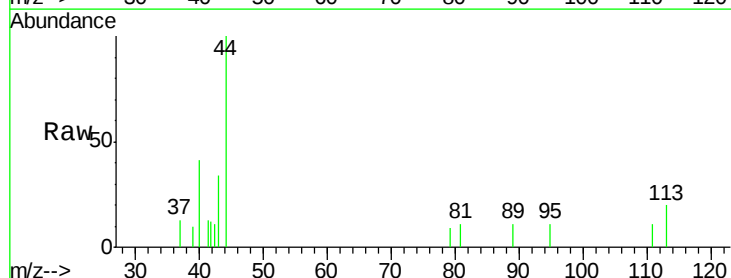
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 1017

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



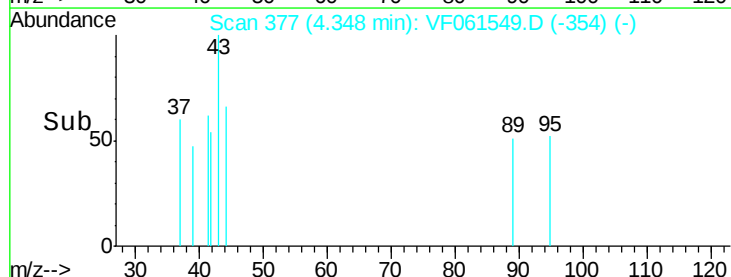
Abundance Ion 43.00 (42.70 to 43.70): VF0

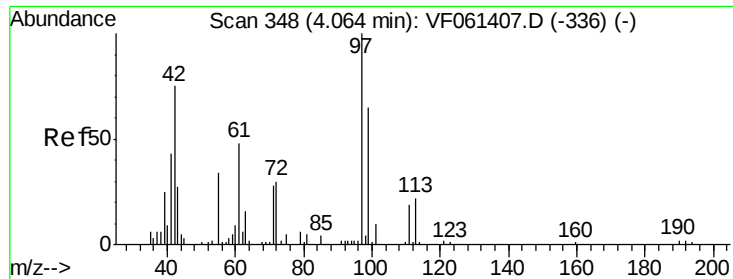
Ion 72.00 (71.70 to 72.70): VF0

4.35

4.40

Time-->

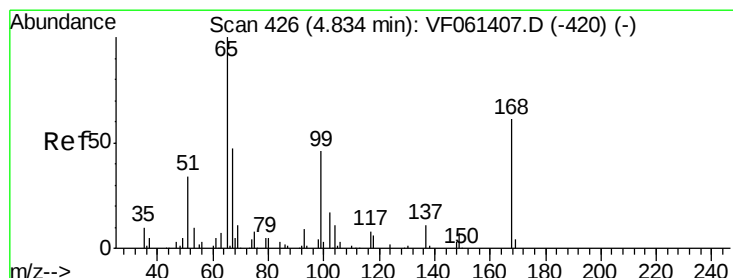
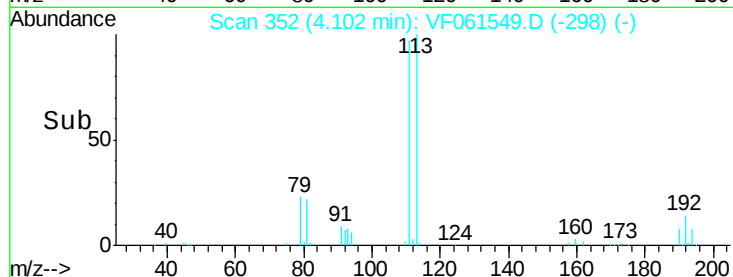
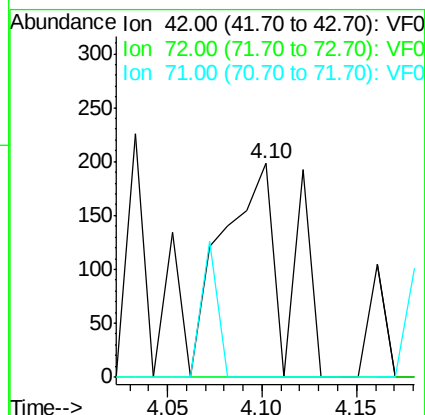
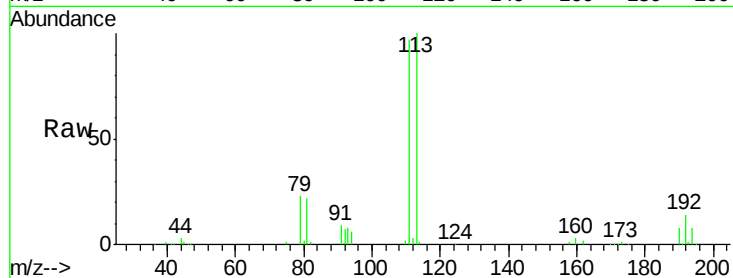




#29
Tetrahydrofuran
Concen: 1.574 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.04 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

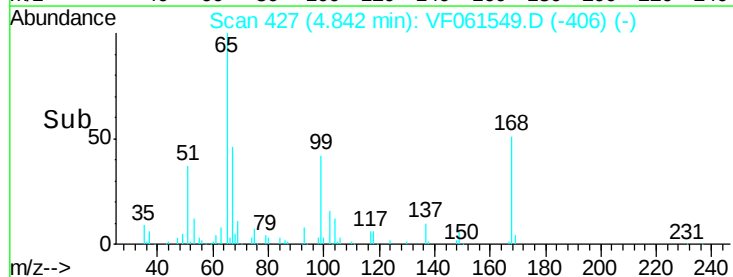
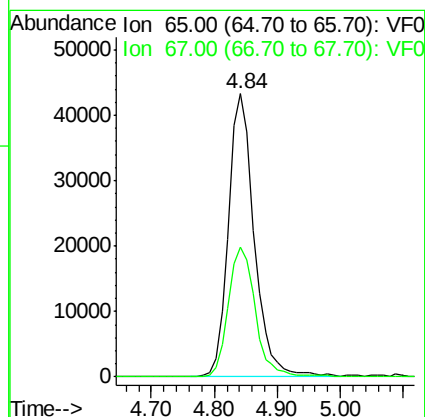
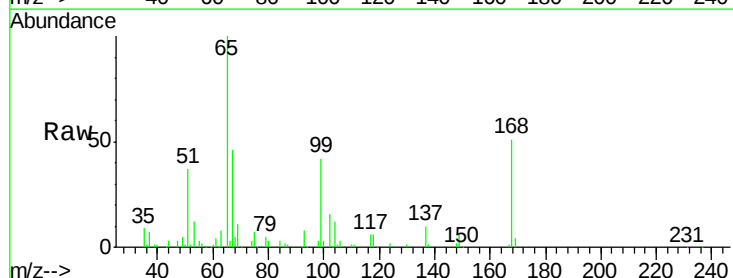
Instrument :
MSVOA_F
ClientSampled :

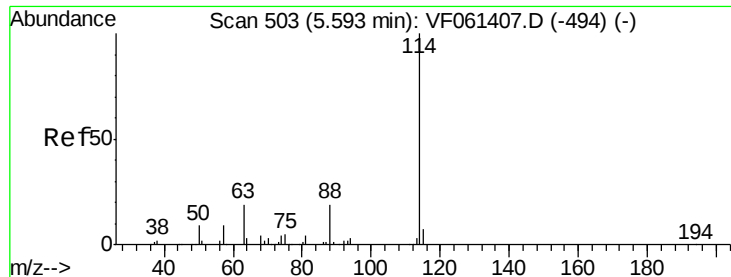
Tot Ion: 42 Resp: 477
Ion Ratio Lower Upper
42 100
72 0.0 28.9 43.3#
71 0.0 29.6 44.4#



#33
1,2-Dichloroethane-d4
Concen: 58.195 ug/l
RT: 4.84 min Scan# 427
Delta R.T. 0.01 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

Tgt Ion: 65 Resp: 122802
Ion Ratio Lower Upper
65 100
67 46.0 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampled :

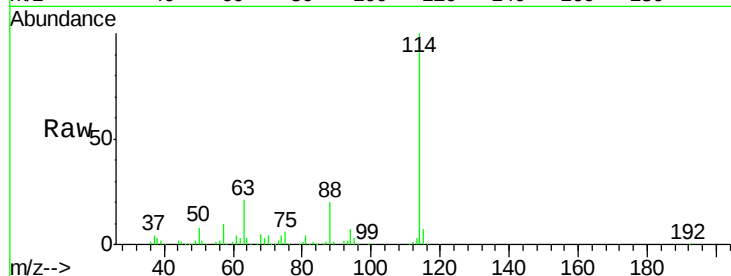
Tot Ion:114 Resp: 293751

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.0

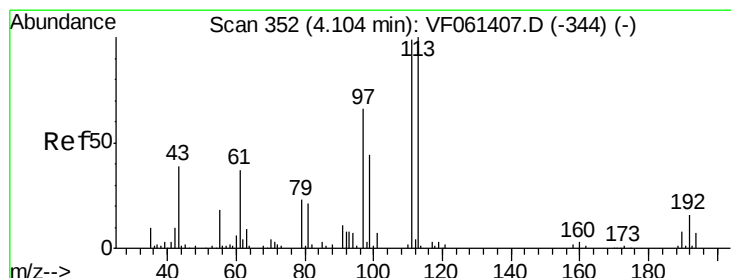
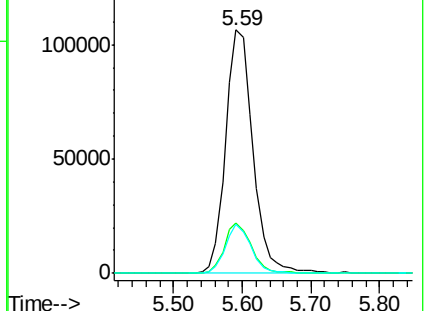
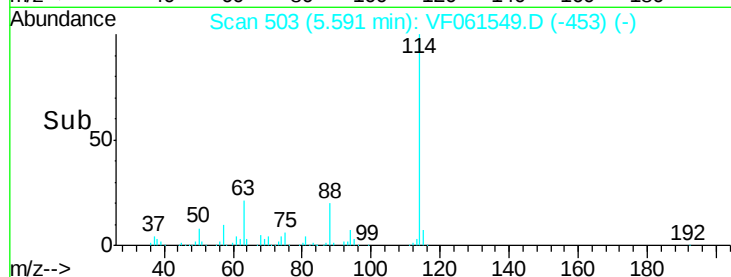
88 20.1 0.0 37.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 57.534 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

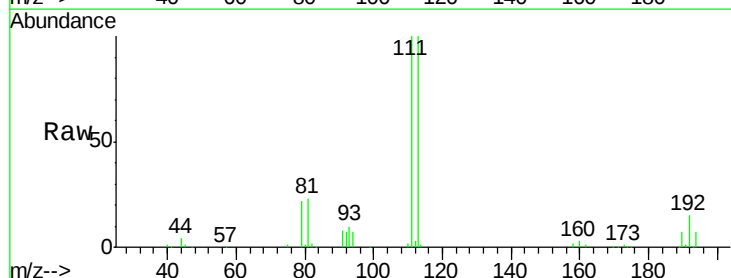
Tgt Ion:113 Resp: 133360

Ion Ratio Lower Upper

113 100

111 99.7 79.4 119.0

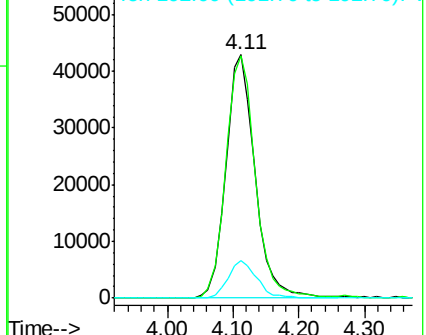
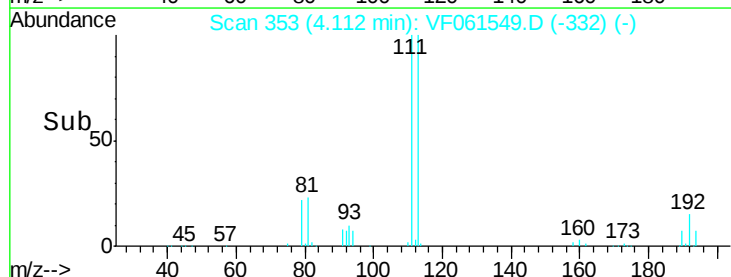
192 15.2 12.4 18.6

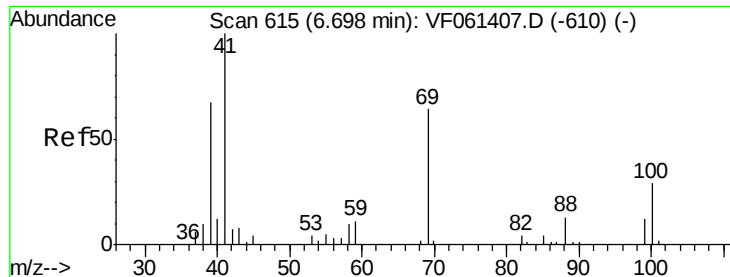


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.94 min Scan# 640

Delta R.T. 0.24 min

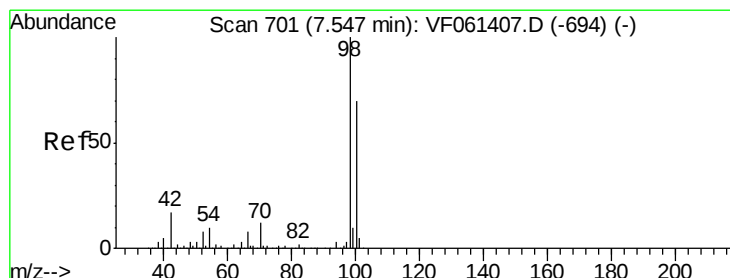
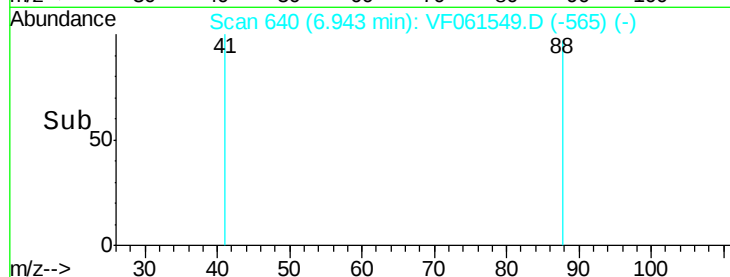
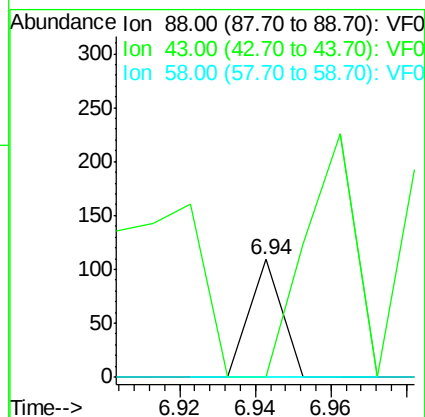
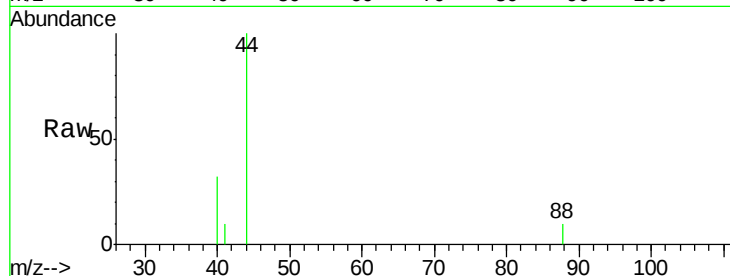
Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 65

Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.5	83.3#
58	0.0	59.9	89.9#



#50

Toluene-d8

Concen: 47.845 ug/l

RT: 7.55 min Scan# 702

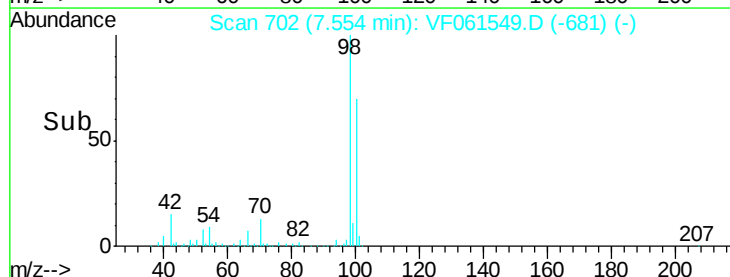
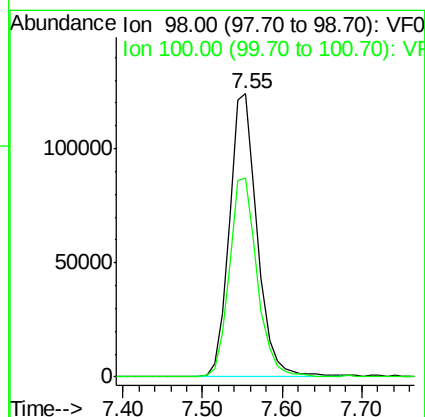
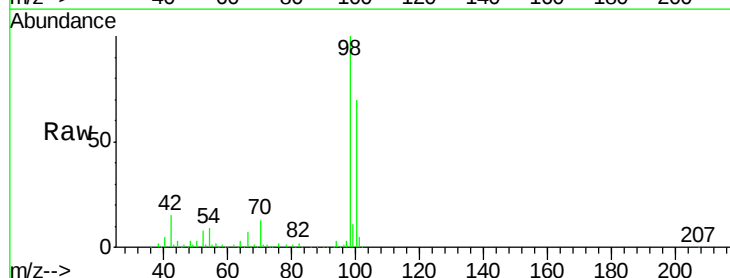
Delta R.T. 0.01 min

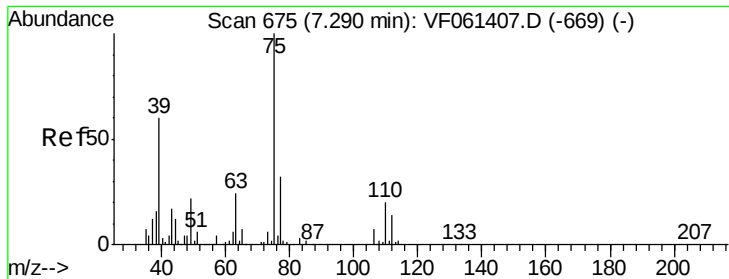
Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Tgt Ion: 98 Resp: 303854

Ion	Ratio	Lower	Upper
98	100		
100	70.1	55.6	83.4





#58

2-Chloroethyl Vinyl ether

Concen: 27.852 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

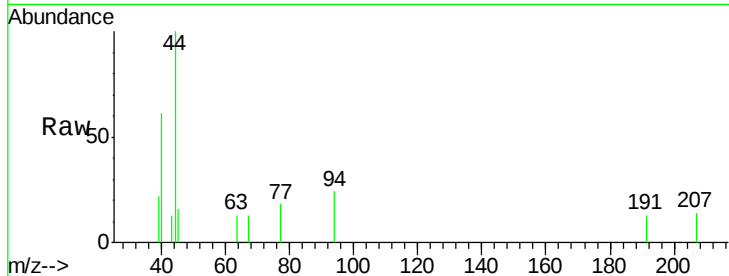
ClientSampleId :

Tot Ion: 63 Resp: 65

Ion Ratio Lower Upper

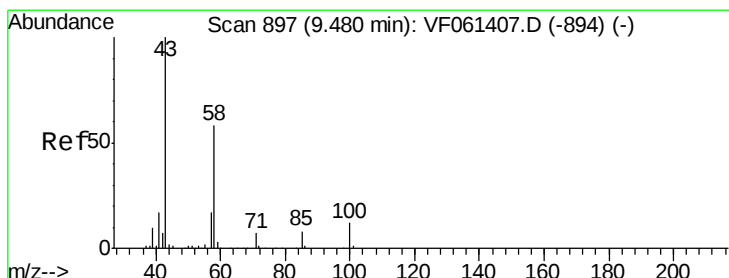
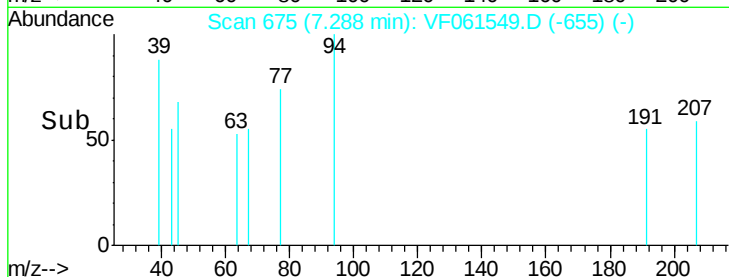
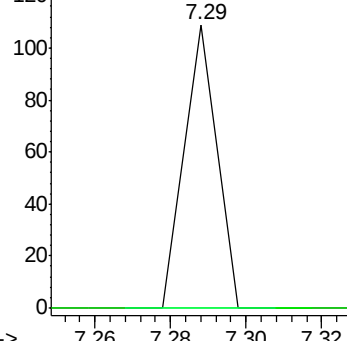
63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 1.223 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061549.D

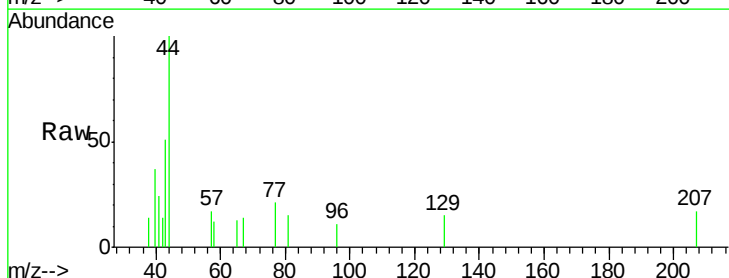
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 1071

Ion Ratio Lower Upper

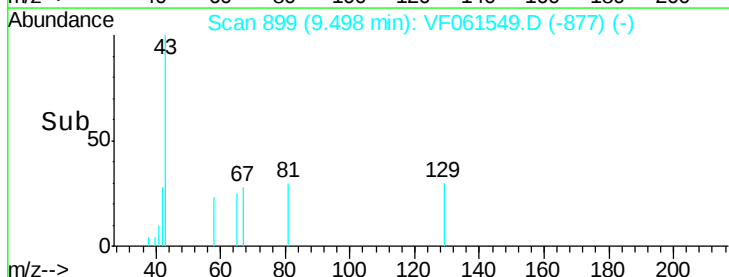
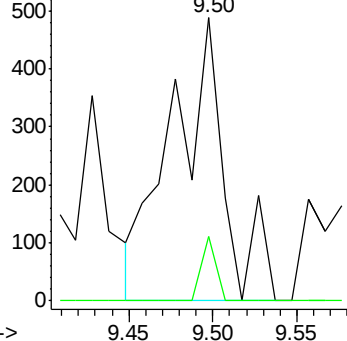
43 100

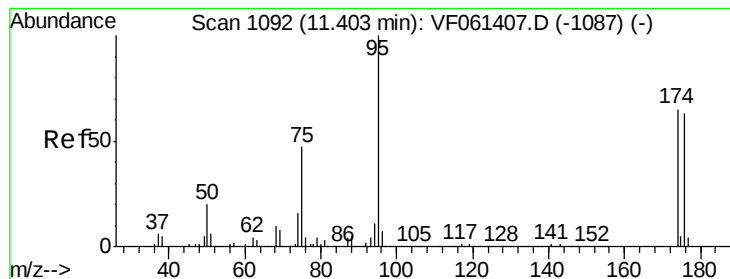
58 23.0 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 41.230 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampled :

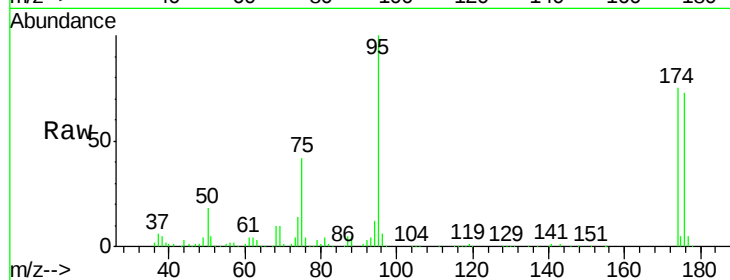
Tot Ion: 95 Resp: 122340

Ion Ratio Lower Upper

95 100

174 74.7 0.0 130.4

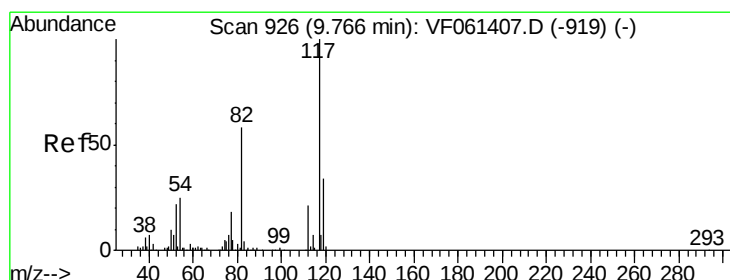
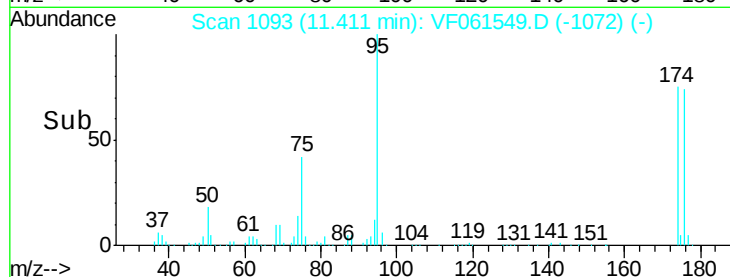
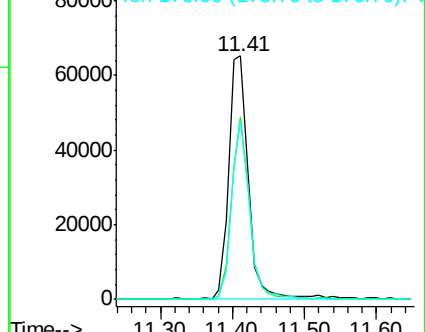
176 73.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

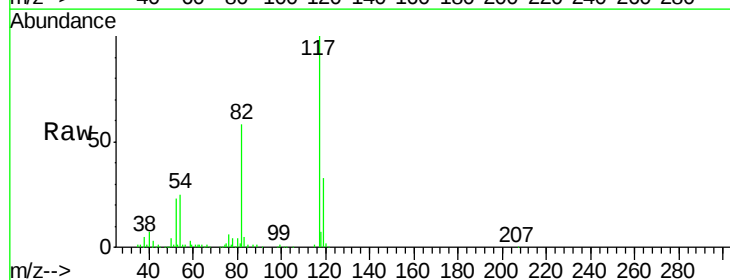
Tgt Ion: 117 Resp: 254672

Ion Ratio Lower Upper

117 100

82 58.3 46.4 69.6

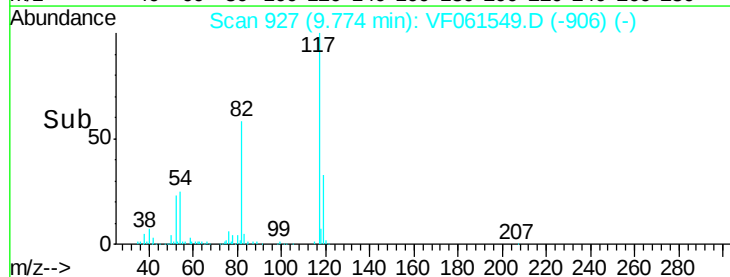
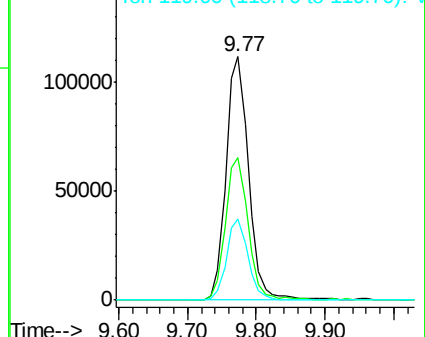
119 33.3 27.2 40.8

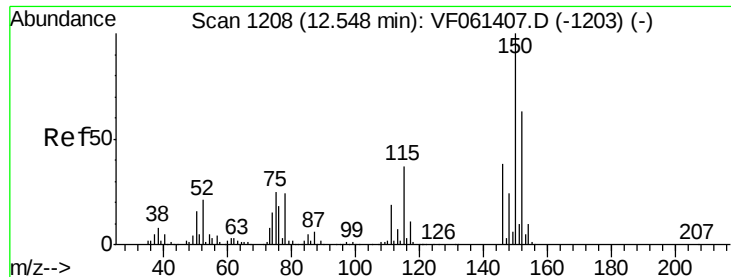


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



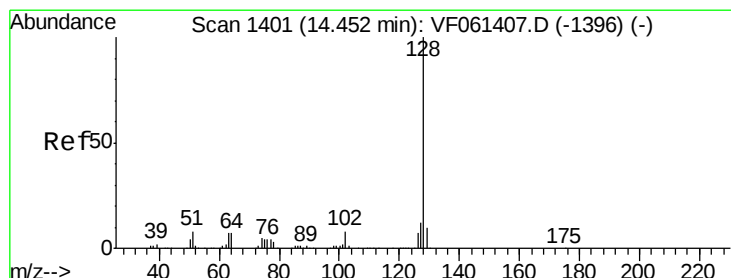
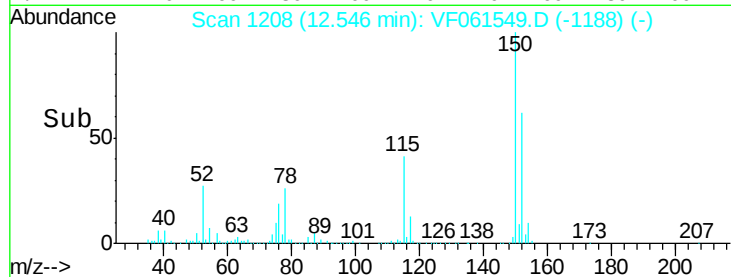
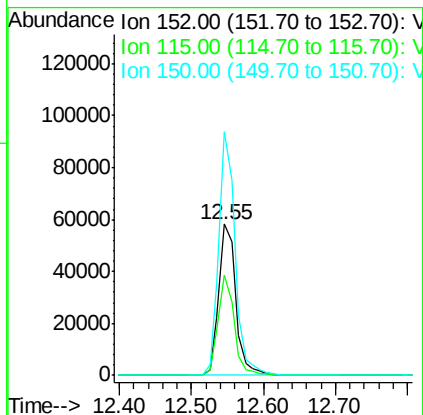
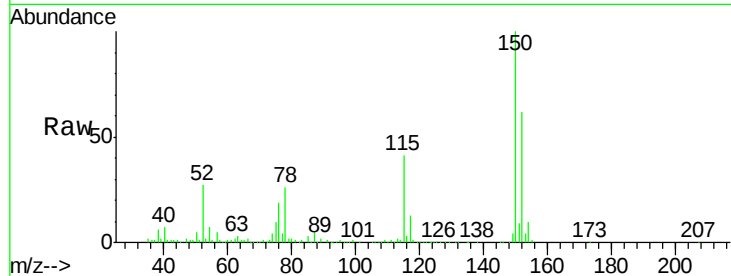


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:152 Resp: 95429
Ion Ratio Lower Upper
152 100
115 66.4 30.0 90.0
150 161.0 0.0 321.4



#95

Naphthalene
Concen: 1.903 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061549.D
Acq: 7 Feb 2019 17:13

Tgt Ion:128 Resp: 7765
Ion Ratio Lower Upper
128 100
127 12.6 9.5 14.3
129 17.2 8.4 12.6#

